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#7/a 2856

PATENT  
ATTY. DOCKET NO. ETK/226

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Courtney et al. Art Unit: 2856  
Serial No. : 09/704,102 Examiner: J. Saint Surin  
Filed : November 1, 2000  
For : DATA COLLECTOR INSTRUMENT WITH INTEGRAL SPEED  
SENSOR

Assistant Commissioner of Patents  
Washington, DC 20231

RESPONSE TO OFFICE ACTION

In response to the Examiner's Office Action dated  
September 26, 2001, please amend the claims as follows:

Clean Version of Amendments

1. A data collector, comprising  
a housing,  
a vibration signal input on said housing,  
an analog to digital converter within said housing  
connected to said vibration signal input, converting a vibration  
signal received at said vibration signal input to a digitized  
vibration signal,

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Commissioner of Patents, Washington, D.C. 20231 on:  
December 26, 2001

Thomas W. Humphrey  
Reg. No. 34,353

*Sub  
Blm*  
an optical system within said housing, said optical system receiving light from outside said housing,

*Cont  
A*  
a receiver circuit converting said received light to a digital signal, and

a digital signal processing circuit connected to said analog to digital converter and said receiver circuit, and simultaneously receiving, storing or processing said digitized vibration signal and said digital signal converted from said received light, in real time, for the purpose of predictive maintenance.

*Sub  
A2*  
13. A method of collecting data for the purpose of predictive maintenance using a data collector, comprising

receiving a vibration signal into a housing of said data collector, and converting said a vibration signal to a digitized vibration signal withing said housing,

receiving light from outside said housing into said housing, and converting said received light to a digital signal, and

simultaneously receiving, storing or processing said digitized vibration signal and said digital signal converted from said received light.